

LASER BEAM RECORDING MATERIAL**Publication number:** JP57022095**Publication date:** 1982-02-04**Inventor:** OOTA YOSHINORI**Applicant:** NIPPON ELECTRIC CO**Classification:**

- international: *B41M5/327; B41M5/26; G11B7/24; G11B7/243;
B41M5/30; B41M5/26; G11B7/24; (IPC1-7): B41M5/26;
G11B7/24B; G11C13/04*

- european: *G11B7/243*

Application number: JP19800096709 19800715**Priority number(s):** JP19800096709 19800715**Report a data error here****Abstract of JP57022095**

PURPOSE: To provide a large capacity and high density laser beam recording material capable of recording at low photoenergy, which is prepared by laminating on a dielectric substrate a primary metallic membrane, which causes solid reaction with a low melting point metal, and a secondary metallic membrane which is composed mainly of a low melting point metal. **CONSTITUTION:** The primary metallic thin membrane 2, which causes solid reaction to a low melting point metal such as Au, etc., and the secondary metallic thin membrane 3, which is composed mainly of a low melting point metal such as In., etc., are laminated on a dielectric substrate 1 such as a plastic glass, etc. A photobeam 4 is applied onto the surface of the thin membrane to allow solid phase reaction by dispersion between these two metals to take place on a section 5 where temperature is raised by absorption of the photobeam, and recording of information is performed by difference in reflectivities of light before and after the reaction.

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